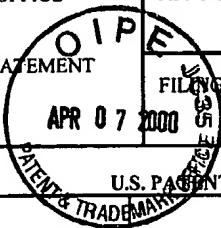


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	APPLICANT Briggs and Tatum	
	FILING DATE 9/25/98	GROUP ART UNIT 1645



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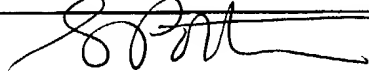
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE

## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>VB</i>	<del>Cruz et al., Nov. 1990, Molecular Microbiology, Vol. 4(11), pages 1933-1939</del>	<i>Duplicate</i>
<i>VB</i>	<del>Gentry et al., Vet. Microbiol., April 1988, vol. 16(4), pages 351-367</del>	<i>Duplicate</i>

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	APPLICANT Briggs and Tatum	
	FILING DATE 12/15/98	GROUP ART UNIT 11647/1645

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
160	4,293,545	10/06/81	Kucera			
	4,335,106	06/15/82	Kucera			
	4,346,074	08/24/82	Gilmour et al.			
	4,388,299	06/14/83	Kucera			
	4,506,017	03/19/85	Kucera			
	4,559,306	12/17/85	Kucera			
	4,626,430	12/02/86	Kucera			
	4,735,801	04/05/88	Stocker et al.			
	4,837,151	06/06/89	Stocker et al.			
	4,888,170	12/19/89	Cyriss			
	<del>4,957,719</del>	<del>09/18/90</del>	<del>Borget et al.</del>			
	4,999,191	03/12/91	Glisson et al.			
	5,055,400	10/08/91	Lo et al.			
	5,077,044	12/31/91	Stocker et al.			
	5,165,924	11/24/92	Shewen et al.			
5,210,035	05/11/93	Stocker				

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

161	Lindberg et al., Dev. Biol. Stand., 1995, Vol. 84, p 211-9

EXAMINER <i>Spitzer</i>	DATE CONSIDERED 2/98
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Substitute for form 1448A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)			<b>Complete if Known</b>		
			Application Number	09/210,747	
			Filing Date	December 15, 1998	
			First Named Inventor	BRIGGS	
			Group Art Unit	1645	
			Examiner Name	V. Portner	
			Attorney Docket Number	000295.77957	
Sheet	1	of	1		

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
1/20		US- 6,331,303	December 18, 2001	Briggs & Tatum	
		US 6,495,145	December 17, 2002	Briggs & Tatum	
		US 6,573,083	June 3, 2003	Briggs & Tatum	
		20020150584	October 17, 2002	Briggs & Tatum	

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FOREIGN PATENT DOCUMENTS					
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
1/8P		Lo et al., "Cloning and expression of the leukotoxin gene of Pasteurella haemolytica A1 in Escherichia coli K-12," Infect Immun 1985 Dec;50(3):667-71, ✓	
		Lo et al., "Nucleotide sequence of the leukotoxin genes of Pasteurella haemolytica A1," Infect Immun 1987 Sep;55(9):1987-96 ✓	
		Strathdee & Lo, "Cloning, nucleotide sequence, and characterization of genes encoding the secretion function of the Pasteurella haemolytica leukotoxin determinant," J Bacteriol 1989 Feb;171(2):916-28 ✓	
✓		Highlander et al., "Secretion and expression of the Pasteurella haemolytica Leukotoxin," J. Bacteriol. 172, 2343-50, 1990 ✓	

Examiner Signature		Date Considered	8/03
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	APPLICANT Briggs and Tatum	
	FILING DATE 12/15/98	GROUP ART UNIT 1647/1648

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
VB	5,468,485	11/21/95	Curtiss, III			
↓	5,389,368	2/14/95	Curtiss, III			

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

VB	Chang et al., "Pneumonic pasteurellosis: Examination of typable and untypable <i>Pasteurella haemolytica</i> strains for Leukotoxin Production, Plasmic Content, and Antimicrobial Susceptibility," <i>Am. J. Vet. Res.</i> , 48(3):378-384 (1987)
↓	Homchampa et al., "Molecular Analysis of the <i>aroA</i> Gene of <i>Pasteurella Multocida</i> and Vaccine Potential of a Constructed <i>aroA</i> Mutant," <i>Molecular Microbiology</i> , 6(23):3585-3593 (1992)
	Briggs et al., "Isolation of a Cryptic Plasmic from <i>Pasteurella haemolytica</i> by Electroporation," Abstract, 72nd Annual Meeting of the Conference of Research Workers in Animal Disease, 11/11/91
	Livrelli et al., "Sequence and Molecular Characterization of the ROB-1 $\beta$ -Lactamase Gene from <i>Pasteurella Haemolytica</i> ," <i>Antimicrobial Agents and Chemotherapy</i> , 35(2):242-251 (1991)
	Ricketts et al., "Leukotoxin and Pathogenicity of <i>Pasteurella Haemolytica</i> : Studies with a Leukotoxin Non-Producing Mutant", Abstract, 3rd International Veterinary Symposium, PS 7.19, p. 92 (1993)
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	Schwarz, et al., "Detection and Interspecies-Transformation of a $\beta$ -Lactamase-Encoding Plasmid from <i>Pasteurella haemolytica</i> ," <i>Zbl. Bakt. Hyg. A</i> , 270:462-469 (1989)
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↓	Azad et al., "Distinct Plasmic Profiles of <i>Pasteurella haemolytica</i> Serotypes and the Characterization and Amplification of <i>Escherichia coli</i> of Ampicillin-Resistance Plasmids Encoding ROB-1 $\beta$ -lactamase," <i>J. Gen. Microbiology</i> , 138:1185-1196 (1992)

EXAMINER J. P. Patton	DATE CONSIDERED 2/98
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	APPLICANT Briggs and Tatum	
	FILING DATE 12/15/98	GROUP ART UNIT 11447/1645

## U.S. PATENT DOCUMENTS

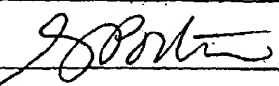
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
BP	5,424,065	6/13/95	Curtiss, III			
BP	5,210,035	5/11/93	Stocker			

## FOREIGN PATENT DOCUMENTS

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BP	Hoiseth et al., "Aromatic-dependent <i>Salmonella typhimurium</i> are Non-Virulent and Effective as Live Vaccines," <i>Nature</i> , 291:238-239 (1981)
	Smith et al., "Vaccination of Calves Against <i>Salmonella dublin</i> With Aromatic-Dependent <i>Salmonella typhimurium</i> ," <i>Am. J. Vet. Res.</i> , 45(9):1858 (1984)
	Roberts et al., "Construction and Characterization in vivo of <i>Bordetella pertussis aroA</i> Mutants," <i>Infection and Immunity</i> 58(3):732-738 (1990)
	Ivins et al., "Immunization against Anthrax With Aromatic Compound-Dependent (Aro) Mutants of <i>Bacillus anthracis</i> and with Recombinant Strains of <i>Bacillus subtilis</i> That Produce Anthrax Protective Antigen," <i>Infection and Immunity</i> , 58(2):303-308 (1990)
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	O'Goers et al., "Cloning and Characterization of the <i>serC</i> and <i>aroA</i> Genes of <i>Yersinia enterocolitica</i> , and Construction of an <i>aroA</i> mutant," <i>Gene</i> 84:23-30 (1989)
	Chang et al., "Characterization of Plasmids With Antimicrobial Resistant Genes in <i>Pasteurella haemolytica</i> A1," <i>J. DNA Sequencing and Mapping</i> , 389-97 (1992)
BP	Rossmann et al., "Characterization and Comparison of Antimicrobial Susceptibilities and Outer Membrane Protein and Plasmic DNA profiles of <i>Pasteurella haemolytica</i> and Certain Other Members of the Genus <i>Pasteurella</i> ," <i>Am. J. Vet. Res.</i> , 52(12):2016-2022 (1991)

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	APPLICANT Briggs and Tatum	
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## U.S. PATENT DOCUMENTS

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✓	5,476,657	12/19/95	Potter			
	5,543,312	8/6/96	Mellors et al.			
	5,273,889	12/28/93	Potter et al.			
	5,238,823	8/24/93	Potter et al.			
	4,999,191	3/21/91	Glisson et al.			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

✓	Tatum et al., "Isolation, Identification, and Cloning of a Non-Palindromic Type II DNA Restriction Endonuclease <i>Pha I</i> , From <i>Pasteurella haemolytica</i> ", Abstract of presentation at American Society for Microbiology, Annual Meeting, May 1993

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	APPLICANT Briggs and Tatum	
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## U.S. PATENT DOCUMENTS

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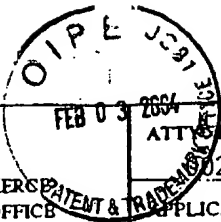
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168	Old, et al., "Principles of Gene Manipulation", Blackwell Scientific Publications, Oxford, 1989
↓	Lunnen et al., "Cloning Type-II Restriction and Modificaiton Genes", <i>Gene</i> 74:25-32 (1988)
↓	Homchampa et al., "Construction and Vaccine Potential of an AroA Mutant of <i>Pasteurella haemolytica</i> ", <i>Veterinary Microbiology</i> 42:35-44 (1994)
↓	International Search Report for PCT/US94/14095 dated May 2, 1995

EXAMINER	<i>J. R. Tate</i>	DATE CONSIDERED	2/98
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	APPLICANT Briggs and Tatum	
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## U.S. PATENT DOCUMENTS

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	4,293,545	10/06/81	Kucera			
	4,335,106	06/15/82	Kucera			
	4,346,074	08/24/82	Gilmour et al.			
	4,388,299	06/14/83	Kucera			
	4,506,017	03/19/85	Kucera			
	4,559,306	12/17/85	Kucera			
	4,626,430	12/02/86	Kucera			
	4,735,801	04/05/88	Stocker et al.			
	4,837,151	06/06/89	Stocker et al.			
	4,888,170	12/19/89	Curtiss			
	4,957,739	09/18/90	Berget et al.			
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	5,077,044	12/31/91	Stocker et al.			
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	5,468,485	11/21/95	Curtiss, III			
	5,389,368	2/14/95	Curtiss, III			

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	Rickets et al., "Leukotoxin and Pathogenicity of <i>Pasteurella Haemolytica</i> : Studies with a Leukotoxin Non-Producing Mutant", Abstract, 3rd International Veterinary Symposium, PS 7.19, p. 92 (1993)
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	Schwarz, et al., "Detection and Interspecies-Transformation of a $\beta$ -Lactamase-Encoding Plasmid from <i>Pasteurella haemolytica</i> ," <i>Zbl. Bakt. Hyg. A</i> , 270:462-469 (1989)
	Haghour et al., "Plasmids and Resistance to 9 Chemotherapeutic Agents of <i>Pasteurella multocida</i> and <i>Pasteurella haemolytica</i> ," <i>J. Vet. Med. B</i> 34:509-518 (1987)
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	Ivins et al., "Immunization against Anthrax With Aromatic Compound-Dependent ( <i>Aro</i> ) Mutants of <i>Bacillus anthracis</i> and with Recombinant Strains of <i>Bacillus subtilis</i> That Produce Anthrax Protective Antigen," <i>Infection and Immunity</i> , 58(2):303-308 (1990)
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PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 00295.77957	SERIAL NUMBER
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	FILING DATE 12/15/98	GROUP ART. UNIT 78

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,476,657	12/19/95	Potter			
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Tatum et al., "Isolation, Identification, and Cloning of a Non-Palindromic Type II DNA Restriction Endonuclease <i>Pha I</i> , From <i>Pasteurella haemolytica</i> ", Abstract of presentation at American Society for Microbiology, Annual Meeting, May 1993

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	Briggs et al., "Characterization of a Restriction Endonuclease, <i>Phal</i> , from <i>Pasteurella haemolytica</i> Serotype A1 and Protection of Heterologous DNA by a Cloned <i>Phal</i> Methyltransferase Gene", <i>Applied and Environmental Microbiology</i> 60(6):2006-2010 (1994)
	Tatum et al., "Molecular Gene Cloning and Nucleotide Sequencing and Construction of an <i>aroA</i> Mutant of <i>Pasteurella haemolytica</i> Serotype A1", <i>Applied and Environmental Microbiology</i> 60(6):2011-2016 (1994)

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	Homchampa et al., "Construction and Vaccine Potential of an AroA Mutant of <i>Pasteurella haemolytica</i> ", <i>Veterinary Microbiology</i> 42:35-44 (1994)
	International Search Report for PCT/US94/14095 dated May 2, 1995

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